

**Charnock Initial Regional
Response Activities (CIRRA)**

**TASK 4
INFORMATION SUMMARY REPORT
Charnock Sub-Basin
Los Angeles, California**

**VOLUME I
REPORT and APPENDICES A thru N**

submitted to:

**California Regional Water Quality Control Board
Los Angeles Region**

and

**U.S. Environmental Protection Agency
Region IX**

on behalf of:

**Shell Oil Company
Shell Oil Products Company
Equilon Enterprises LLC**

prepared by:

**Kennedy/Jenks Consultants
Irvine, California
K/J 004028.00**

1 October 2000

**Kennedy/Jenks Consultants
Engineers & Scientists**

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Q	Charnock Sub-Basin Raw Water Characterization (Environ)
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1 INTRODUCTION

This summary report has been prepared by Kennedy/Jenks Consultants (Kennedy/Jenks) on behalf of Shell Oil Company, Shell Oil Products Company, and Equilon Enterprises LLC (Shell) as required by joint agency requirements contained in Attachment A, Scope of Work (SOW), Task 4 to the Los Angeles Regional Water Quality Control Board (LARWQCB) Stipulated Agreement No. 00-064 and the United States Environmental Protection Agency (USEPA) Administrative Order on Consent USEPA Docket No. RCRA 7003-09-2000-003 (SA/AOC).

Task 4 is entitled, "Interim Provision of Drinking Water Information Summary Report." The overall purpose of this task is to provide data necessary to effectively and thoroughly evaluate the options for interim provision of drinking water. The report summarizes information relevant to the analysis of options for the provision of drinking water.

1.1 Sources of Information

As required by the SOW, the information obtained for the preparation of this report came from various publicly available sources, such as agency files, data obtained by Kennedy/Jenks during pilot tests previously conducted at the Charnock facility, and information provided by Southern California Water Company (SCWC), the City of Santa Monica (COSM) and the US EPA. The facilities were not physically inspected to prepare this report. Information regarding potential impacts of contamination and of possible facility modifications to the COSM and SCWC water systems is an engineering estimate that is based on Kennedy/Jenks field studies and evaluations.

Environ International Corporation (Environ) provided the information for compliance with the California Department of Health Services (DHS) memo dated 5 November 1997 entitled, "Policy Memo 97-005, Policy Guidance for Direct Domestic Use of Extremely Impaired Sources." The Source Water Assessment and the Raw Water Quality Characterization information are contained in Appendices P and Q respectively, to this report but are separate stand-alone documents and will be submitted under separate cover by Environ.

1.2 Report Organization

This summary report has been organized in the following manner:

- Section 1 presents the purpose, sources of information, and report organization.
- Section 2 presents information about the water supply wells, construction details, and locations.
- Section 3 presents information on the general history of well development and operations.
- Section 4 presents information on the historical production rates.
- Section 5 presents information on the COSM drinking water demand history.
- Section 6 presents information on the SCWC drinking water demand history.
- Section 7 presents information on the well field operational permits and permit conditions.
- Section 8 presents information on the COSM infrastructure description.
- Section 9 presents information on the SCWC infrastructure description.
- Section 10 presents information on the potential contamination impacts on COSM and SCWC infrastructures.
- Section 11 presents information on the potential impacts of possible facility modifications on drinking water infrastructures.

- Section 12 presents information on the Source Water Assessment for the Charnock Sub-Basin.
- Section 13 presents information on the Raw Water Characterization of the Charnock Sub-Basin.
- Section 14 presents a list of references used in this report.

1.3 Limitations

This report contains data that has been provided by third parties. The data has been incorporated into this report as given, and no attempt to verify or validate the information has been undertaken. For example, water demand rates provided by the COSM were not verified by reviewing billing records to determine the veracity of the information. Kennedy/Jenks assumes no responsibility for information presented that has been provided by third parties.